

121 ATTAGTATTGAGTTAACTTACTTATTGACTTGACGGTTATAATCCAGGCC 180
 Db 301 AATTACCGTAGTTAGTTATGATTATAAAATCAGGGTCTCAAGAAAACCTAA 360
 Qy 181 ATGAAALATTIAATGCTTTAATAGTTAACCTACTATAAATTTTCATAGTAAA 240
 Db 361 AATGGGTTCGGTGCAGGGTTCGATGGTTAGTCGATTTCATAATTGACACT 420
 181 ATGAAALATTIAATGCTTTAATAGTTAACCTACTATAAATTTTCATAGTAAA 240
 Db 361 AATGGGTTCGGTGCAGGGTTCGATGGTTAGTCGATTTCATAATTGACACT 420

Qy 241 TTTAATCGGTAGTTGATTTCAATTATTTTTATAAAACTTACCC 300
 Db 421 CCTAGTGTGTTAGTTAAGCTTAAAGCAGTTACAGAG 456
 Db 421 CCTAGTGTGTTAGTTAAGCTTAAAGCAGTTACAGAG 456
 Qy 301 AATTATCGGTACAGTTAGTTAGTTATAAAATCAGGTCTTCAGAGAAAACCTAA 360
 Db 301 AATTATCGGTACAGTTAGTTAGTTATAAAATCAGGTCTTCAGAGAAAACCTAA 360
 RESULT 3
 US-10-311-455-321 ; Sequence 321, Application US/10311455
 ; GENERAL INFORMATION:
 Qy 361 ATCGGGTTCGGTGGGAGGGTTGATGGTTAGTCGATTTCATAATTGACACT 420
 ; APPLICANT: CLEK, Alexander
 Db 361 ATCGGGTTCGGTGGGAGGGTTGATGGTTAGTCGATTTCATAATTGACACT 420
 ; APPLICANT: PLEPENROCK, Christian
 Qy 421 CCTAGTGTGTTAGTTAAGCAGTTACAGAG 456
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determ:
 Db 421 CCTAGTGTGTTAGTTAAGCAGTTACAGAG 456
 ; TITLE OF INVENTION: cytosine methylation
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311.455
 ; CURRENT FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIORITY NUMBER: US20040103454A1
 ; PRIORITY FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIORITY FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; PRIORITY FILING DATE: 2000-09-01
 ; SEQ ID NO: 321
 ; NUMBER OF SEQ ID NOS: 24 24
 ; LENGTH: 5145
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

US-10-363-069-1 ; Sequence 1, Application US/10363069
 ; GENERAL INFORMATION:
 ; TITLE OF INVENTION: TRANSGENIC PLANTS CONTAINING MOLECULAR DECOYS THAT ALTER PROTEIN
 ; CONTENT THEREIN
 ; CURRENT APPLICATION NUMBER: US/10/363.069
 ; CURRENT FILING DATE: 2003-02-28
 ; PRIOR APPLICATION NUMBER: PCT/US01/26788
 ; PRIOR FILING DATE: 2001-08-28
 ; PRIOR APPLICATION NUMBER: US 60/229,198
 ; PRIOR FILING DATE: 2000-08-30
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO: 1
 ; LENGTH: 456
 ; TYPE: DNA
 ; ORGANISM: Nicotiana tabacum
 US-10-363-069-1

Query Match 14.6t; Score 66.6; DB 15; Length 5145;
 Best Local Similarity 51.9%; Pred. No. 0.058; Matches 176; Conservative 0; Mismatches 159; Indels 4; Gaps 1;

Qy 4 AACATTCATACATGAGTTAGTCGACTCTAATGCTAGAACTTGTGCCTTGTCT 63
 Db 511 AAATATTTTATAAGTTAAGTTTATATTTTCCGGTTATTATGGGTCTTT 570
 ;
 Qy 64 AAATAAGATACTGAAATAGCTAGTTAAATAAATAGATAATAGATTAGAAATT 123
 Db 571 TAGTTTATGAGGGATATAATTATTAAATTTTAAATGTTTAAATTGTT 630
 ;
 Qy 124 AGTATTGAGTTAACTATTGACTGTAACTTGTAACTTGTAACTTGTAACTTGT 183
 Db 631 TTTTTTTTAGTTGGTTAGGGTTAGGGTTAGAGAAATTAGAAAGAG---AGG 686
 ;
 Qy 184 AAAATTTAATGCTTAACTTACTTAACTTACTTAACTTACTTAACTTACCTTAATT 243
 Db 687 AAAGAGATTATTTTTAAATTTTAAATGGTATTTTAAATGGTATTTATAGTT 746
 ;
 Qy 244 AACCGTATAGTCGATTTCAATTTCATTTTAAATTTTAAACCTACCCATT 303
 Db 747 TGTATTATTTGATTATTGATTATTGTTTAAATTTTAAATGGTTAA 805
 ;
 Qy 304 TATGGTACAGTTAGTTAACTTAACTTAACTTAACTTAACTTAACTTAA 342
 Db 807 TTGTGTTTTAAATGTTAGTAACTTAACTTAACTTAACTTAACTTAACTT 845
 ;
 Qy 241 TTAAATCGGTAGTTGCTTACATTATTTTTCAATTATTAAATTTTAACTACCC 300
 Db 241 TTAAATCGGTAGTTGCTTACATTATTTTCAATTATTAAATTTAATGCTTACCC 300
 ;
 301 AATTATCGGTACAGTTAGTTAACTTAACTTAACTTAACTTAACTTAACTTAA 360
 ;
 Qy 241 TTAAATCGGTAGTTGCTTACATTATTTTTCAATTATTAAATTTTAACTACCC 300
 Db 241 TTAAATCGGTAGTTGCTTACATTATTTTCAATTATTAAATTTAATGCTTACCC 300
 ;
 301 AATTATCGGTACAGTTAGTTAACTTAACTTAACTTAACTTAACTTAACTTAA 360
 ;
 RESULT 4
 US-10-240-485-17 ; Sequence 17, Application US/10240485
 ; Publication No. US20030148322A1

GENERAL INFORMATION
 APPLICANT: OLEK, Alexander
 APPLICANT: PIEPENROCK, Christian
 APPLICANT: BERLIN, Kurt
 TITLE OF INVENTION: Diagnosis of Diseases Associated with
 FILE REFERENCE: 5013.1007
 CURRENT APPLICATION NUMBER: US/10/240,485
 PRIOR APPLICATION NUMBER: PCT/EP01/03970
 PRIOR FILING DATE: 2001-04-06
 PRIOR APPLICATION NUMBER: DE 10019058-8
 PRIOR FILING DATE: 2000-04-16
 PRIOR APPLICATION NUMBER: DE 10019173-8
 PRIOR FILING DATE: 2002-10-02
 PRIOR APPLICATION NUMBER: PCT/EP01/03970
 SEQ ID NO: 17
 LENGTH: 5145
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

US-10-240-485-17

Query Match 14.6%; Score 66.6; DB 15; Length 5145;
 Best Local Similarity 51.9%; Pred. No. 0; Mismatches 159; Indels 4; Gaps 1;

Qy 4 AACATATTCAACATGTTAGTTGGCTACTCATAACTCGTAGAATACTTGTGCCCTGGCT 63
 Db 511 AATATTTTAAAGTTAAATAGATAATAGTTTTAGGAATT 123

Qy 64 AATAAAGATRACTGTAATAAGCTTAACTGTTAAAGTTAAATTTAGGAAATT 123
 Db 571 TATGTTATGAGGATAATATTTATTTATGTTTTTTAAATTG 630

Qy 124 AGTATTGAGTTAAATTACTTAACTGTTAACTGTTAACTGTTAAAGGCCATT 183
 Db 631 TTTCCTTTAGTTGGTTATAGGGTTAGTAAAGTTAGATAAGAG---AGG 686

Qy 184 AAAATTAAATGCTTATAGTTAACTTAACTTAAATTTCTATGTAATT 243
 Db 687 AAAAGATTTATTTTATTTTATTTATTTGTTGTTGTTATTTATAGTT 746

Qy 244 AATCGTTAGTGGATAATTCTATTTTAAATTTAAACCTAACCTAA 303
 Db 747 TGTTTATTTATGATTATTTATTTATTTGTTATTTGTTTTAA 806

Qy 304 TATCGGTACAGTTACAGTTACATTTAAATCTACGGT 342
 Db 807 TTGTTTTAAATTTGTTAGTAAATTAGT 845

RESULT 5
 US-10-311-455-1541/C
 Sequence 1541, Application US/10311455
 GENERAL INFORMATION:
 Publication No. US200303143606A1
 APPLICANT: OLEK, Alexander
 APPLICANT: PIEPENROCK, Christian
 APPLICANT: BERLIN, Kurt
 TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determination of Invention: Cytosine methylation
 FILE REFERENCE: 5013.1014
 CURRENT APPLICATION NUMBER: US/10/311,455
 PRIOR APPLICATION NUMBER: PCT/EP01/07537
 PRIOR FILING DATE: 2001-07-02
 PRIOR APPLICATION NUMBER: DE 10043826.1
 SEQ ID NO: 1541
 LENGTH: 6175
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)

US-10-311-455-1280

Query Match 13.4%; Score 61; DB 15; Length 6175;
 Best Local Similarity 48.7%; Pred. No. 0; Mismatches 175; Indels 0; Gaps 0;

Matches 154; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
 Dy 19 TGTAGTTGCTACTCATATGGCTAAATAATTGTGCCTATAAACATACTTGA 78
 Db 13515 TGGGTTTTTAATTTGGGATTGGATTATAATGTTTAATGAAATAUTGG 13574
 Qy 79 ATAGCTTAGTTAAATAATAGATAATGATTAGTTGAGTTA 138
 Db 13575 TATAAGTATTAAATAATAATATTTATTTTGAGGATAT 13634

RESULT 11
 US-10-480-846-17
 ; Sequence 17, Application US/10480846
 ; Publication No. US20040219549A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Distler, Jurgen
 ; APPLICANT: Model, Fabian
 ; APPLICANT: Adorian, Peter
 ; TITLE OF INVENTION: Method and nucleic acids for the differentiation
 ; TITLE OF INVENTION: of prostate and renal carcinomas
 ; FILE REFERENCE: 47675-53
 ; CURRENT APPLICATION NUMBER: US/10/480,846
 ; CURRENT FILING DATE: 2003-12-12
 ; PRIOR APPLICATION NUMBER: PCT/EP02/06603
 ; PRIOR FILING DATE: 2002-06-14
 ; PRIOR APPLICATION NUMBER: DE 10128509.4
 ; NUMBER OF SEQ ID NOS: 116
 ; SEQ ID NO 17
 ; LENGTH: 18997
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 ; US-10-480-846-17

Query Match 13.2%; Score 60.4%; DB 18; Length 18997;
 Best Local Similarity 49.7%; Pred. No. 0; 91; Mismatches 156; Indels 0; Gaps 0;
 Matches 154; Conservative 0;

Qy 19 TTGCTAGTTGCTACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78,
 Db 13515 TTGAGGTTTTTAATTTGGGATTGGATTGAGTTAATGTTGAGTTGAGTTG 13574
 Qy 79 ATAGCTTAGTTAAACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78
 Db 13575 TTATTATGTTAAATAATAATGGATAATTTTTATGGATAAT 13634

Query Match 13.2%; Score 60.4%; DB 18; Length 18997;
 Best Local Similarity 49.7%; Pred. No. 0; 91; Mismatches 156; Indels 0; Gaps 0;
 Matches 154; Conservative 0;

Qy 19 TGTAGTTGCTACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78,
 Db 13515 TTGAGGTTTTTAATTTGGGATTGGATTGAGTTAATGTTGAGTTGAGTTG 13574
 Qy 79 ATAGCTTAGTTAAACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78
 Db 13575 TTATTATGTTAAATAATAATGGATAATTTTTATGGATAAT 13634

RESULT 12
 US-10-311-455-1549
 ; Sequence 1549, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPERBROCK, Christian
 ; APPLICANT: BERLIN, Kurt

Query Match 13.2%; Score 60.4%; DB 17; Length 18997;
 Best Local Similarity 49.7%; Pred. No. 0; 91; Mismatches 156; Indels 0; Gaps 0;
 Matches 154; Conservative 0;

Qy 19 TGTAGTTAAACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78
 Db 13635 TTGAGGTTTTTAATTTGGGATTGGATTGAGTTAATGTTGAGTTGAGTTG 13694
 Qy 79 ATAGCTTAGTTAAACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78
 Db 13755 TTATTATGTTAAATAATAATGGATAATTTTTATGGATAAT 13814

Query Match 13.2%; Score 60.4%; DB 17; Length 18997;
 Best Local Similarity 49.7%; Pred. No. 0; 91; Mismatches 156; Indels 0; Gaps 0;
 Matches 154; Conservative 0;

Qy 19 TGTAGTTAAACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78
 Db 13635 TTGAGGTTTTTAATTTGGGATTGGATTGAGTTAATGTTGAGTTGAGTTG 13694
 Qy 79 ATAGCTTAGTTAAACTCATATAATGGATACTTGTGCCCTGCTAAATAAGGACTCTGA 78
 Db 13815 TTATTATGTTAAATAATAATGGATAATTTTTATGGATAAT 13824

RESULT 15

Qy 244 AATCGGTATAAGTCGATATTTCGAATTATTTAATTAATTAATTAACCTTAAAT 303 LOCATION: 8645..8854
OTHER INFORMATION: exon 8
FEATURE: exon

Db 4557 TATTTATGATTTTGGAATTATTAAGATATTATTAATGAAAGTTTATTAGAT 4616 LOCATION: 12254..12340
OTHER INFORMATION: exon 9
FEATURE: exon

Qy 304 TATCGGTACAGTTATGATTAATTAATTAATCTAGGTCTT 345 LOCATION: 12854..13023
OTHER INFORMATION: exon 10
FEATURE: exon

Db 4617 TTGTTTATGTTATGTTATATTTTGTGTTATT 4658 LOCATION: 13008..13429
OTHER INFORMATION: exon 11
FEATURE: exon

Sequence 651, Application US/10170097
Publication No. US20030228582A1
GENERAL INFORMATION:

APPLICANT: Blumenfeld, Marta
APPLICANT: Bougueret, Lydie
APPLICANT: Chnakov, Ilyya
APPLICANT: Cohen, Annick
TITLE OF INVENTION: BIALLILEIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
FILE REFERENCE: GBN-T114XC2D1
CURRENT FILING DATE: 2002/06/10
PRIOR APPLICATION NUMBER: US 09/170,097
PRIOR FILING DATE: 2000-09-09/641,638
PRIOR APPLICATION NUMBER: US 09/502,330
PRIOR FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: US 60/133,200
PRIOR FILING DATE: 1999-05-07
PRIOR APPLICATION NUMBER: US 09/275,267
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: US 60/119,917
PRIOR FILING DATE: 1999-02-12
NUMBER OF SEQ ID NOS: 1304
SOFTWARE: Patent_PM
SEQ ID NO: 651
LENGTH: 20674
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: misc feature
NAME/KEY: misc feature
LOCATION: 1123..3123
OTHER INFORMATION: 5' regulatory region

FEATURE:
NAME/KEY: exon
LOCATION: 3124..3297
OTHER INFORMATION: exon 1
FEATURE:
NAME/KEY: exon
LOCATION: 3871..4072
OTHER INFORMATION: exon 2
FEATURE:
NAME/KEY: exon
LOCATION: 5552..5633
OTHER INFORMATION: exon 3
FEATURE:
NAME/KEY: exon
LOCATION: 5758..5880
OTHER INFORMATION: exon 4
FEATURE:
NAME/KEY: exon
LOCATION: 6349..6509
OTHER INFORMATION: exon 6
FEATURE:
NAME/KEY: exon
LOCATION: 7379..7522
OTHER INFORMATION: exon 7
FEATURE:
NAME/KEY: exon
LOCATION: 2844

LOCATION: 13308..13429
OTHER INFORMATION: exon 11
FEATURE: exon

LOCATION: 16567..16667
OTHER INFORMATION: exon 12
FEATURE: exon

LOCATION: 16775..16945
OTHER INFORMATION: exon 13
FEATURE: exon

LOCATION: 17063..17554
OTHER INFORMATION: exon 14
FEATURE: exon

LOCATION: 17555..20674
OTHER INFORMATION: 3' regulatory region
FEATURE:
NAME/KEY: allele
LOCATION: 1128
OTHER INFORMATION: 10-508-191 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 1182
OTHER INFORMATION: 10-508-245 : polymorphic base C or T
FEATURE:
NAME/KEY: misc feature
LOCATION: 1559
OTHER INFORMATION: 10-509-284 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 1570
OTHER INFORMATION: 10-509-295 : deletion of C
FEATURE:
NAME/KEY: allele
LOCATION: 1827
OTHER INFORMATION: 10-510-173 : variable motif ATTTA or TTTTT
FEATURE:
NAME/KEY: allele
LOCATION: 2046
OTHER INFORMATION: 10-511-62 : polymorphic base C or T
FEATURE:
NAME/KEY: allele
LOCATION: 2323
OTHER INFORMATION: 10-511-337 : insertion of T
FEATURE:
NAME/KEY: allele
LOCATION: 2623
OTHER INFORMATION: 10-512-36 : polymorphic base G or C
FEATURE:
NAME/KEY: allele
LOCATION: 2832
OTHER INFORMATION: 10-513-250 : polymorphic base A or G
FEATURE:
NAME/KEY: allele
LOCATION: 2844

OTHER INFORMATION: 10-513-262 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2334 OTHER INFORMATION: 10-513-352 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 2347 OTHER INFORMATION: 10-513-365 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 3802 OTHER INFORMATION: 12-206-81 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 4082 OTHER INFORMATION: 10-343-231 : deletion of C
 FEATURE:
 NAME/KEY: allele
 LOCATION: 4088 OTHER INFORMATION: 12-206-366 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 4109 OTHER INFORMATION: 10-343-278 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 4170 OTHER INFORMATION: 10-343-339 : polymorphic base G or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 5903 OTHER INFORMATION: 10-346-23 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6019 OTHER INFORMATION: 10-346-141 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6183 OTHER INFORMATION: 10-346-305 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6338 OTHER INFORMATION: 10-347-74 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6375 OTHER INFORMATION: 10-347-111 : polymorphic base G or C
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6429 OTHER INFORMATION: 10-347-165 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6467 OTHER INFORMATION: 10-347-203 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6484 OTHER INFORMATION: 10-347-220 : polymorphic base A or G

Qy 111 GATTTAGGAATTAGTATTGAGTTAATTACTATGACTTGAACTGTAACTTTATAAT 170
 Db 11124 TTAAATTAAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAA 11183
 Qy 171 TCCAAAGGCCCATGAAATTAAATTATGGCTTATAGCTTAACCTACTATAAATTTC 230
 Db 11184 AATTAAATAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAA 11243
 Qy 231 ATATGAAATTAAATCGTAGTGTGATAATTCAATTAAATTAAATTAAATTAA 290
 Db 11244 AATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAA 11303
 Qy 291 AACITACCCTAATTATCGGTACAGTTATAGATTATAAAATCTACGGGTCTTCAGAA 350
 Db 11304 ATTAAACTTAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAAATTAA 11363
 Qy 351 GAAACCTAA 359
 Db 11364 TTAAATTAA 11372

Search completed: November 13, 2004, 03:51:09
 Job time : 382 secs

Qy 51 TTGTCCTGCTTAATAAGATACTGAAATAGCTTAGTTAAATTAAATTAGCATATA 110
 Db 11064 TTITTAATAGCTAAGAAATATTTAAATTAAATTAAATTAAATTAAATTAA 11123

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OM nucleic - nucleic search, using sw model

Run on: November 12, 2004, 20:59:30 ; Search time 78 Seconds

(without alignments) 4155..381 Million cell updates/sec

Title: US-09-941-042C-1

Perfect score: 456

Sequence: 1 ggaacatattcaatacatt.....ggtaaaaaggcagtacagag 456

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 35539441 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_NA:*

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2: /cggn2_6/prodata/1/ina/5B_COMB.seq/*
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5: /cggn2_6/prodata/1/ina/PTCTUS_COMB.seq/*
6: /cggn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	456	100.0	1030	2 US-09-108-786-5	Sequence 5, Appli
2	456	100.0	1030	5 PCT-US96-12158-5	Sequence 5, Appli
3	456	100.0	1294	2 US-08-108-786-4	Sequence 4, Appli
4	456	100.0	1294	5 PCT-US96-12158-4	Sequence 4, Appli
5	456	100.0	1372	2 US-08-108-786-3	Sequence 3, Appli
6	456	100.0	1372	5 PCT-US96-12158-3	Sequence 3, Appli
7	456	100.0	1988	2 US-08-108-786-2	Sequence 2, Appli
8	456	100.0	1988	5 PCT-US96-12158-2	Sequence 2, Appli
9	456	100.0	2010	5 PCT-US96-12158-1	Sequence 1, Appli
10	456	100.0	2010	5 US-08-108-786-6	Sequence 6, Appli
11	148	32.5	722	2 US-10-204-562-3	Sequence 6, Appli
12	148	32.5	722	5 PCT-US96-12158-6	Sequence 6, Appli
13	60.6	13.3	837	3 US-08-938-416-288	Sequence 288, Appli
14	59.4	13.0	20674	4 US-09-641-631-651	Sequence 651, Appli
15	59.4	13.0	20674	4 US-10-170-097-651	Sequence 651, Appli
16	57	12.5	53312	4 US-09-891-861-3	Sequence 3, Appli
17	57	12.5	53312	4 US-10-224-562-3	Sequence 3, Appli
c	18	56.2	12.3	5152 4 US-10-204-708-73	Sequence 73, Appli
19	55.8	12.2	2328	4 US-09-710-279-4195	Sequence 4195, Appli
20	55.6	12.2	636	3 US-08-938-416-1137	Sequence 1137, Appli
21	54.2	11.9	6040	4 US-10-204-708-70	Sequence 70, Appli
22	53.6	11.8	14078	4 US-08-936-171E-191	Sequence 191, Appli
23	53.6	11.8	14078	4 US-08-793-191	Sequence 191, Appli
24	52.8	11.6	615	3 US-08-938-416-186	Sequence 186, Appli
25	52.8	11.6	1850	3 US-08-617-860B-32	Sequence 32, Appli
26	52.8	11.6	4098	2 US-08-603-106-4	Sequence 4, Appli
27	52.6	11.5	319	1 US-07-533-657-1	Sequence 14, Appli

ALIGNMENTS

RESULT 1									
US-08-508-786-5	;	Sequence 5, Application US/08508786	;	Patent No. 5831876	;	GENERAL INFORMATION:	;	APPLICANT: CorpKing, Mark A.	;
								APPLICANT: Song, Wen	;
								TITLE OF INVENTION: Root Cortex Specific Gene Promoter	;
								NUMBER OF SEQUENCES: 9	;
								CORRESPONDENCE ADDRESS:	;
								- ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park & Givson	;
								STREET: Post Office Draver 34009	;
								CITY: Charlotte	;
								STATE: No. 5831876th Carolina	;
								COUNTRY: USA	;
								ZIP: 28234	;
								COMPUTER READABLE FORM:	;
								MEDIA TYPE: Floppy disk	;
								COMPUTER: IBM PC compatible	;
								OPERATING SYSTEM: PC-DOS/MS-DOS	;
								SOFTWARE: Patent In Release #1.0, Version #1.30	;
								CURRENT APPLICATION DATA:	;
								APPLICATION NUMBER: US/08/508786	;
								FILING DATE:	;
								CLASSIFICATION: 800	;
								ATTORNEY AGENT INFORMATION:	;
								NAME: Sibley, Kenneth D.	;
								REGISTRATION NUMBER: 31,665	;
								REFERENCE/DOCKET NUMBER: 5051-294	;
								TELECOMMUNICATION INFORMATION:	;
								TELEPHONE: 919-891-3175	;
								TELEFAX: 919-891-3175	;
								INFORMATION FOR SEQ ID NO: 5:	;
								SEQUENCE CHARACTERISTICS:	;
								LENGTH: 1030 base pairs	;
								TYPE: nucleic acid	;
								STRANDEDNESS: single	;
								TOPOLOGY: linear	;
								MOLECULE TYPE: DNA (genomic)	;
								US-08-508-786-5	;
								Query Match	100.0%
								Best Local Similarity	100.0%
								Mismatches	0;
								Gaps	0;
QY								1 GGAAACATATTCAATACATTGAGTGTGACTCATATCGTAGATACTTGTGCCTT	60
								2 GGAAACATATTCAATACATTGAGTGTGACTCATATCGTAGATACTTGTGCCTT	60
								3 GGAAACATATTCAATACATTGAGTGTGACTCATATCGTAGATACTTGTGCCTT	60
								4 GGAAACATATTCAATACATTGAGTGTGACTCATATCGTAGATACTTGTGCCTT	60
								5 GGAAACATATTCAATACATTGAGTGTGACTCATATCGTAGATACTTGTGCCTT	60
								6 GGAAACATATTCAATACATTGAGTGTGACTCATATCGTAGATACTTGTGCCTT	60

S21 ID 515
103 Onw
103 Onw
103 Onw

TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-09-508-786-4

Query Match 100.0%; Score 456; DB 2; Length 1294;
 Best Local Similarity 100.0%; Pred. No. 1.4e-86;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACATATCAACATGCTAGTTGGTACTCATAACGGCTAGAAATCTTGTCGCTT 60
 Db 265 GGAACATATCAACATGCTAGTTGGTACTCATAACGGCTAGAAATCTTGTCGCTT 324
 Qy 61 OCTAATAAGAAGTACGTGAATAGCTTAGTTAAATAATAGATAATAGATTAGA 120
 Db 325 GCTTAATAAGAAGTACGTGAATAGCTTAGTTAAATAATAGATAATAGATTAGA 384
 Qy 121 ATTAGATTTGAGTTAAATTACTATTGACTTGTAACAGTTTATAATCCAGGCC 180
 Db 385 ATTAGATTTGAGTTAAATTACTATTGACTTGTAACAGTTTATAATCCAGGCC 444
 Qy 181 ATGAAAATTTAATGCTTAAATGTTTAACTCTATAAAATTTATGTTAA 240
 Db 445 ATGAAAATTTAATGCTTAAATGTTTAACTCTATAAAATTTATGTTAA 504
 Qy 241 TTTAATCGGTAGTGCATATTTCATTAAATTTAAATAAAACTTACCT 300
 Db 505 TTTAATCGGTAGTGCATATTTCATTAAATTTAAATAAAACTTACCT 564
 Qy 301 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 360
 Db 565 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 624
 Qy 361 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 420
 Db 625 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 684
 Qy 421 CCTAGTTGTTGTATAGTTAAAGGTTACAGAG 456
 Db 685 CCTAGTTGTTGTATAGTTAAAGGTTACAGAG 720

RESULT 4
 PCT-US96-12158-4
 ; Sequence 4, Application PC/TUS9612158
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mengdu, Nandini
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESS: Gibson
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: North Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31 665
 ; REFERENCE/DOCKET NUMBER: 5051-294

TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 919-420-2200
 ; TELEFAX: 919-881-3175
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 LENGTH: 1294 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 PCT-US96-12158-4

Query Match 100.0%; Score 456; DB 5; Length 1294;
 Best Local Similarity 100.0%; Pred. No. 1.4e-86;
 Matches 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAAACATATCAATGCTAGTTGGTACTCATAACGGCTAGAAATCTTGTCGCTT 60
 Db 265 GAAACATATCAATGCTAGTTGGTACTCATAACGGCTAGAAATCTTGTCGCTT 324
 Qy 61 GCTAAATAAGAAGTACGTGAATAGCTTAGTTAAATAATAGATAATAGATTAGA 120
 Db 325 GCTAAATAAGAAGTACGTGAATAGCTTAGTTAAATAATAGATAATAGATTAGA 384
 Qy 121 ATTAGATTTGAGTTAAATTACTATTGACTTGTAACAGTTTATAATCCAGGCC 180
 Db 385 ATTAGATTTGAGTTAAATTACTATTGACTTGTAACAGTTTATAATCCAGGCC 444
 Qy 181 ATGAAAATTTAATGCTTAAATGTTTAACTCTATAAAATTTATGTTAA 240
 Db 445 ATGAAAATTTAATGCTTAAATGTTTAACTCTATAAAATTTATGTTAA 504
 Qy 241 TTTAATCGGTAGTGCATATTTCATTAAATTTAAATAAAACTTACCT 300
 Db 505 TTTAATCGGTAGTGCATATTTCATTAAATTTAAATAAAACTTACCT 564
 Qy 301 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 360
 Db 565 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 624
 Qy 361 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 420
 Db 625 AATTATCGGTAGCTTAAATGTTTAAATTCAGGTTCTCAGAGAACCTAA 684
 Qy 421 CCTAGTTGTTGTATAGTTAAAGGTTACAGAG 456
 Db 685 CCTAGTTGTTGTATAGTTAAAGGTTACAGAG 720

RESULT 5
 US-09-508-786-3
 ; Sequence 3, Application US/08508786
 ; Patent No. 5837676
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mengdu, Nandini
 ; APPLICANT: Song, Wen
 ; TIME OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; ADDRESS: Gibson
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: North Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31 665
 ; REFERENCE/DOCKET NUMBER: 5051-294

APPLICATION NUMBER: US/08/508,786
 FILING DATE: 8/08/2000
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 RESEARCH DOCKET NUMBER: 5051-294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-420-2200
 TELEX/FAX: 919-881-175
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1372 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-508-786-3

Query Match 100.0%; Score 456; DB 2; Length 1372;
 Best Local Similarity 100.0%; Pred. No. 1.4e-86;
 Matches 456; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY T GGAACATATTCAATCATGAGTTGCTACTCTAAATGCCGAAATACCTTGCCCTT 60
 Db 343 GGAACATATTCAATCATGAGTTGCTACTCTAAATGCCGAAATACCTTGCCCTT 402
 QY 61 GCTAATAAGATAATGACTGAAATAGCTTAGTTAAATATAAGCTAAATGATTGAGA 120
 Db 403 GCTAATAAGATAATGACTGAAATAGCTTAGTTAAATATAAGCTAAATGATTGAGA 462
 QY 121 ATTAATGATTTGAGTTAAATGACTATTGACTTAACTCTAAATTTCCAGGCC 180
 Db 463 ATTAATGATTTGAGTTAAATGACTATTGACTTAACTCTAAATTTCCAGGCC 522
 QY 181 ATGAAAAATTTAATGCTTTAATGTTAAACTCTAACTATAAATTTCAATGTAAA 240
 Db 523 ATGAAAAATTTAATGCTTTAATGTTAAACTCTAACTATAAATTTCAATGTAAA 582
 QY 241 TTAATGGTATAGTCGATTTCGATTATTGTTAACTTAACTCTAAATTTCAATGTAAA 300
 Db 583 TTAAACGGTATAGTCGATTTCGATTATTGTTAACTTAACTCTAAATTTCAATGTAAA 642
 QY 301 AATTATGGTACAGTTAACTGTTTAACTGTTTCAAGAAAACCTAAA 360
 Db 643 AATTATGGTACAGTTAACTGTTTCAAGAAAACCTAAA 702
 QY 361 AATCGGTTCGGTGCGGACGGTTGATGCTGATTTCAAATTCATTGACACT 420
 Db 703 AATCGGTTCGGTGCGGACGGTTGATGCTGATTTCAAATTCATTGACACT 762
 QY 421 CCTAGTTGTTGTTATAGTAAAGGAGTTACAGAG 456
 Db 763 CCTAGTTGTTGTTATAGTAAAGGAGTTACAGAG 798

RESULT 6
 PCT-US96-1215B-3
 Sequence 3, Application PC/TUS961215B
 GENERAL INFORMATION:
 APPLICANT: Conkling, Mark A.
 ADDRESS: Kenneth D. Sibley, Bell, Seltzer, Park & Gibson
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: North Carolina
 COUNTRY: USA
 ZIP: 28234

NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 APPLICANT: Song, Wen
 ADDRESS: Mendu, Nandini
 TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
ADDRESSEE: Gibson
STREET: Post Office Drawer 34009
CITY: Charlotte
STATE: No. 58378-76th Carolina
COUNTRY: USA
ZIP: 28234

COMPUTER READABLE FORM:

COMPUTER TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/5008,786
FILING DATE:
CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Sibley, Kenneth D.
REGISTRATION NUMBER: 31,665
REFERENCE/DOCKET NUMBER: 5051-294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-420-2200
TELEFAX: 919-881-3175
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1988 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
S-08-5008-786-2

Sequence Comparison Results							
Query	Match	Score	DB	Length	Version	Start	End
Query	Match	100.0%	Score 456;	DB 2;	Length 1988;		
Best Local Similarity	100.0%		Pred. No. 1.5e-86;				
Matches 456;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;			
1	GGAACATATTCAATGCTAGTTGTACTCATATACTGCTAGATACTTGTGCCTT	60					
559	GGAACATATTCAATGCTAGTTGTACTCATATACTGCTAGATACTTGTGCCTT	1018					
61	GCTAAATAGATACTGGAAATAGCTTAACTGTTAAATAGATAATAGATTTAGGA	120					
1019	GCTAAATAGATACTGGAAATAGCTTAACTGTTAAATAGATAATAGATTTAGGA	1078					
121	ATTAGTATTGAGCTTAACTCTTAACTCTTAACTCTTAACTCTTAACTCTTAA	180					
1079	ATTAGTATTGAGCTTAACTCTTAACTCTTAACTCTTAACTCTTAACTCTTAA	1138					
181	ATGAAAATTAAATTGCTTAACTCTTAACTCTTAACTCTTAACTCTTAACTCTA	240					
1139	ATGAAAATTAAATTGCTTAACTCTTAACTCTTAACTCTTAACTCTTAACTCTA	1198					
241	TTTATCGGTATAGTTGATATTTTCATTATTATATAAAATAAAACCTACCT	300					
1199	TTTATCGGTATAGTTGATATTTTCATTATTATATAAAATAAAACCTACCT	1256					
301	AATTATCGGTACAGTTATGATTATATAAAATTCAGTTTCAAAATTCACTTCA	360					
1259	AATTATCGGTACAGTTATGATTATATAAAATTCAGTTTCAAAATTCACTTCA	1318					
361	AATCGGTTCGGTGGGACGGTTGATCGGTTTACGCAATTCAAAATTCACTTCA	420					
1319	AATCGGTTCGGTGGGACGGTTGATCGGTTTACGCAATTCAAAATTCACTTCA	1378					
421	CCTAGTGTGTATAGTGTAAACAGTACAGG	456					
1379	CCTAGTGTGTATAGTGTAAACAGTACAGG	1414					

Db 1199 TTTAATCGGTATAGTTCGATATTTCGATTTCAATTATTTATAAAATAAAACTTACCC 1258
 Qy 301 AATTATCGGTACAGTTATAGATTATATAAAATCTAAGGTTCTTCAGAGAAAACCTAA 360
 PCT-US96-12158-6
 Qy 1259 AATTATCGGTACAGTTATAGATTATATAAAATCTAAGGTTCTTCAGAGAAAACCTAA 1318
 ; GENERAL INFORMATION:
 ; APPLICANT: Conkling, Mark A.
 ; APPLICANT: Mandu, Nandini
 ; APPLICANT: Song, Wen
 ; TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 ; STREET: Post Office Drawer 34009
 ; CITY: Charlotte
 ; STATE: North Carolina
 ; COUNTRY: USA
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US96/12158
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE DOCKET NUMBER: 5051-294
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 919-420-2200
 ; TELEFAX: 919-881-3175
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 72 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 PCT-US96-12158-6

RESULT 12
 US-08-508-786-6
 Sequence 6, Application US/08508786
 Patent No. 5837876
 GENERAL INFORMATION:
 APPLICANT: Conkling, Mark A.
 APPLICANT: Mandu, Nandini
 APPLICANT: Song, Wen
 TITLE OF INVENTION: Root Cortex Specific Gene Promoter
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park &
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5837876th Carolina
 COUNTRY: USA
 ZIP: 28234
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/508,786
 FILING DATE:
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE DOCKET NUMBER: 5051-294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-420-2200
 TELEFAX: 919-881-3175
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 72 base Pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-508-786-6

Query Match 32.5%; Score 148; DB 2; Length 722;
 Best Local Similarity 100.0%; Pred. No. 1.6e-22;
 Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 RESULT 13
 US-08-998-416-288
 Sequence 288, Application US/08998416
 Patent No. 623924
 ; GENERAL INFORMATION:
 ; APPLICANT: Philippson, Peter
 ; APPLICANT: Pholmann, Rainer
 ; APPLICANT: Steiner, Sabine
 ; APPLICANT: Mohr, Christine
 ; APPLICANT: Wendland, Jurgen
 ; APPLICANT: Kechtle, Philipp
 ; APPLICANT: Rebitschung, Corinne

Db 121 TTGTATAGTAAAGGAGTTACAGAG 148
 Qy 309 GTACAGTTATAGATTATAAAATCTAAGGAAACCTAAATGGTT 368
 Pct 1 GTACAGTTATAGATTATAAAATCTAAGGAAACCTAAATGGTT 60
 Qy 369 CGGTGCGGACGGTTGATGGTTAGTGATGTTCAAAATCATGCACTCCCTAGTG 428
 Db 61 CGGTGCGGACGGTTGATGGTTAGTGATGTTCAAAATCATGCACTCCCTAGTG 120
 Qy 429 TTGTATAGTAAAGGAGTTACAGAG 456
 Db 121 TTGTATAGTAAAGGAGTTACAGAG 148

TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHYA GOSSYPTI
 NUMBER OF SEQUENCES: 1152
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: No. 6239264artis Corporation
 STREET: 3054 Cornwallis Road
 CITY: Research Triangle Park
 STATE: No. 6239264th Carolina
 COUNTRY: USA
 ZIP: 27709

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/998,415
 FILING DATE: 24-DEC-1997
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: CH 0016/97
 FILING DATE: 31-DEC-1996

ATTORNEY/AGENT INFORMATION:
 NAME: Meigs, J. Timothy
 REGISTRATION NUMBER: 38,241
 REFERENCE/DOCKET NUMBER: PP/5-30306/A/CGC1976
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-541-8689
 TELEFAX: 919-541-8587

SEQUENCE FOR SEQ ID NO: 288:

SEQUENCE CHARACTERISTICS:
 LENGTH: 837 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ORIGINAL SOURCE:
 ORGANISM: PAG1241.RP
 US:08-998-416-288

Query Match 13.3%; Score 60.6; DB 3; Length 837;
 Best Local Similarity 51.1%; Pred. No. 0.00024;
 Matches 168; Conservative 0; Mismatches 159; Insets 2; Gaps 1;

Qy	4 AACATATTCAATAACATTGAGTTGCTACTCATAAATCGCTAGATACTTGTGCCTTGCT 63
Db	234 AAATTAGTTAAATATTAGATATTATTCTTATAAAATTAAATAAGA 293
Qy	64 AATAAAGATACTGAAATAGCTAGTTAAATATAAATAGCATATAATTTAGGATT 123
Db	294 TTATCAATTAAATATTATTTATTGTTTATTAAATAATTATTATTATA 353
Qy	124 AGATTTGAGTTAACTCTATG--ACTTGTAAACGGTTTATATTCCAGGCCA 181
Db	354 TAAGAATTAAATTTAAATATGTAATTATTATTTATTATAATTATTTA 413
Qy	182 TGAATAATTAAATGCTTAACTTTAACCTTAACTATAATTCTGAAAT 241
Db	414 TAATATTAGTTGTTTAACTCTTAACTTTATGAAATTATTAAATAATT 473
Qy	242 TTAATGGTAACTGATTCGATTTTCAAATTAAATAAAAACCTTACCTTA 301
Db	474 TTAACTTAACTCTTAACTTAAATTATAATTATTTATTTATTTCACTT 533
Qy	302 ATTATCGGTAACTGTTATGTTTATAAA 330
Db	534 TTATTAACTTAAATTAAATTAATTAA 562

RESULT 14
 US-9-641-638-651
 ; Sequence 651, Application US/09641638
 ; Patent No. 6432646
 OTHER INFORMATION: exon 14
 NAME/KEY: misc feature
 LOCATION: 17063..17554
 OTHER INFORMATION: exon 14
 NAME/KEY: misc feature
 LOCATION: 1755..20674
 OTHER INFORMATION: 3, regulatory region

GENERAL INFORMATION:
 APPLICANT: Blumentald, Marta
 APPLICANT: Bougueret, Lydie
 APPLICANT: Chumakov, Ilya
 APPLICANT: Cohen, Annick
 TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
 FILE REFERENCE: GENSET 0516CPI
 CURRENT APPLICATION NUMBER: US/09/641,638
 CURRENT FILING DATE: 2000-08-16
 PRIOR APPLICATION NUMBER: US/09/502,330
 PRIOR FILING DATE: 2000-02-11
 PRIOR APPLICATION NUMBER: US 60/133,700
 PRIOR FILING DATE: 1999-05-07
 PRIOR APPLICATION NUMBER: US 09/275,267
 PRIOR FILING DATE: 1999-03-23
 PRIOR APPLICATION NUMBER: US 60/119,917
 PRIOR FILING DATE: 1999-02-12
 NUMBER OF SEQ ID NOS: 1304
 SOFTWARE: Patent-PM
 SEQ ID NO: 651
 LENGTH: 20674
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1123..3123
 OTHER INFORMATION: 5' regulatory region
 NAME/KEY: exon
 LOCATION: 3:24..3:297
 OTHER INFORMATION: exon 1
 NAME/KEY: exon
 LOCATION: 3871..4072
 OTHER INFORMATION: exon 2
 NAME/KEY: exon
 LOCATION: 552..5633
 OTHER INFORMATION: exon 3
 NAME/KEY: exon
 LOCATION: 5758..5880
 OTHER INFORMATION: exon 4
 NAME/KEY: exon
 LOCATION: 5996..6099
 OTHER INFORMATION: exon 5
 NAME/KEY: exon
 LOCATION: 6149..6509
 OTHER INFORMATION: exon 6
 NAME/KEY: exon
 LOCATION: 7379..7522
 OTHER INFORMATION: exon 7
 NAME/KEY: exon
 LOCATION: 8645..8854
 OTHER INFORMATION: exon 8
 NAME/KEY: exon
 LOCATION: 12254..12340
 OTHER INFORMATION: exon 9
 NAME/KEY: exon
 LOCATION: 12854..13023
 OTHER INFORMATION: exon 10
 NAME/KEY: exon
 LOCATION: 13308..13429
 OTHER INFORMATION: exon 11
 NAME/KEY: exon
 LOCATION: 16567..16667
 OTHER INFORMATION: exon 12
 NAME/KEY: exon
 LOCATION: 1675..16945
 OTHER INFORMATION: exon 13
 NAME/KEY: exon
 LOCATION: 17063..17554
 OTHER INFORMATION: exon 14
 NAME/KEY: misc feature
 LOCATION: 1755..20674
 OTHER INFORMATION: 3, regulatory region

```

NAME/KEY: allele
LOCATION: 1128 : polymorphic base C or T
OTHER INFORMATION: 10-508-191 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 1182 : polymorphic base C or T
OTHER INFORMATION: 10-508-245 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 1559 : polymorphic base C or T
OTHER INFORMATION: 10-509-284 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 1570 : deletion of C
OTHER INFORMATION: 10-509-295 : deletion of C
NAME/KEY: allele
LOCATION: 1827 : variable motif ATTTA or TTTT
OTHER INFORMATION: 10-510-173 : variable motif ATTTA or TTTT
NAME/KEY: allele
LOCATION: 2048 : polymorphic base C or T
OTHER INFORMATION: 10-511-62 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 2323 : insertion of T
OTHER INFORMATION: 10-511-337 : insertion of T
NAME/KEY: allele
LOCATION: 2341 : polymorphic base G or C
OTHER INFORMATION: 10-512-36 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 2623 : polymorphic base A or G
OTHER INFORMATION: 10-512-318 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 2832 : polymorphic base A or G
OTHER INFORMATION: 10-513-250 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 2844 : polymorphic base C or T
OTHER INFORMATION: 10-513-262 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 2934 : polymorphic base A or G
OTHER INFORMATION: 10-513-352 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 2947 : polymorphic base A or G
OTHER INFORMATION: 10-513-365 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 3802 : polymorphic base A or G
OTHER INFORMATION: 12-206-81 : polymorphic base A or G
LOCATION: 4062 : deletion of C
OTHER INFORMATION: 10-343-231 : deletion of C
NAME/KEY: allele
LOCATION: 4088 : polymorphic base C or T
OTHER INFORMATION: 12-206-366 : polymorphic base C or T
LOCATION: 4109 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 4170 : polymorphic base G or T
OTHER INFORMATION: 10-343-339 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 5903 : polymorphic base A or G
OTHER INFORMATION: 10-346-23 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6019 : polymorphic base A or G
OTHER INFORMATION: 10-346-141 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6141 : polymorphic base G or C
OTHER INFORMATION: 10-346-263 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 6183 : polymorphic base C or T
OTHER INFORMATION: 10-346-305 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 6338 : polymorphic base A or G
OTHER INFORMATION: 10-347-74 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6375 : polymorphic base G or C
OTHER INFORMATION: 10-347-111 : polymorphic base G or C

```

```

NAME/KEY: allele
LOCATION: 6429 : polymorphic base C or T
OTHER INFORMATION: 10-347-165 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 6467 : polymorphic base A or G
OTHER INFORMATION: 10-347-203 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6484 : polymorphic base A or G
OTHER INFORMATION: 10-347-220 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6534 : polymorphic base A or T
OTHER INFORMATION: 10-347-271 : polymorphic base A or T
NAME/KEY: allele
LOCATION: 6611 : polymorphic base A or G
OTHER INFORMATION: 10-347-348 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 7668 : polymorphic base A or G
OTHER INFORMATION: 10-348-391 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 8608 : polymorphic base C or T
OTHER INFORMATION: 10-349-47 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 8656 : polymorphic base A or G
OTHER INFORMATION: 10-349-97 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 8703 : polymorphic base G or C
OTHER INFORMATION: 10-349-142 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 8777 : deletion of CTG
OTHER INFORMATION: 10-349-216 : deletion of CTG
NAME/KEY: allele
LOCATION: 8785 : polymorphic base G or T
OTHER INFORMATION: 10-349-224 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 8926 : polymorphic base C or T
OTHER INFORMATION: 10-349-368 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 12171 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 12429 : polymorphic base C or T
OTHER INFORMATION: 10-350-332 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 13341 : polymorphic base A or G
OTHER INFORMATION: 10-507-170 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 13492 : polymorphic base A or C
OTHER INFORMATION: 10-507-321 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 13524 : polymorphic base C or T
OTHER INFORMATION: 10-507-353 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 13535 : polymorphic base C or T

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Query Match Score 59.4; DB 4; Length 20674;
 Best Local Similarity 49.5%; Pred. No. 0.0062;
 Matches 153; Conservative 0; Gaps 0;

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Qy      51 TTTGGCCTTGCTTAAGATACTGAAATAGCTTAGTTAAATAGCATATA 110
Db      11064 TTATTAAATAGCTAGGAAATTTTATATTAAATTTTAAATTTATA 11123
Qy      111 GATTTAGGATTTGACTTATTTGACTTATGCTAACGTTTATAT 170
Db      11124 TTAATTAATTTATTTAAATTTAAATTTAAATTTAAATTTAA 11183
Qy      171 TCCAGGCCATGAAAAATTAAATGCTTATAGTTAAACTCTATATA 230
Db      11184 ATTAAATTAATTTAAATTTAAATTTAAATTTAAATTTAAATTT 11243
Qy      231 ATATGTAATTTATCGGTATGCTGATACTTCAATTATTTAAATATA 290
Db      11244 ATTAAATTAATTTAAATTTAAATTTAAATTTAAATTTAAATTT 11303

```


OTHER INFORMATION: 10-513-262 : polymorphic base C or T
 FEATURE: NAME/KEY: allele
 LOCATION: 2934
 OTHER INFORMATION: 10-513-352 : polymorphic base A or G
 FEATURE: NAME/KEY: allele
 LOCATION: 2947
 OTHER INFORMATION: 10-513-365 : polymorphic base A or G
 FEATURE: NAME/KEY: allele
 LOCATION: 3802
 OTHER INFORMATION: 12-206-81 : polymorphic base A or G
 FEATURE: NAME/KEY: allele
 LOCATION: 4062
 OTHER INFORMATION: 10-343-231 : deletion of C
 FEATURE: NAME/KEY: allele
 LOCATION: 4088
 OTHER INFORMATION: 12-206-366 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 4109
 OTHER INFORMATION: 10-343-278 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 4170
 OTHER INFORMATION: 10-343-339 : polymorphic base G or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 5903
 OTHER INFORMATION: 10-346-23 : polymorphic base A or G
 FEATURE: NAME/KEY: allele
 LOCATION: 6019
 OTHER INFORMATION: 10-346-141 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6441
 OTHER INFORMATION: 10-346-263 : polymorphic base G or C
 FEATURE: NAME/KEY: allele
 LOCATION: 6183
 OTHER INFORMATION: 10-346-305 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6338
 OTHER INFORMATION: 10-347-74 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6375
 OTHER INFORMATION: 10-347-111 : polymorphic base G or C
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6429
 OTHER INFORMATION: 10-347-165 : polymorphic base C or T
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6467
 OTHER INFORMATION: 10-347-220 : polymorphic base A or G
 FEATURE:
 NAME/KEY: allele
 LOCATION: 6484
 OTHER INFORMATION: 10-347-220 : polymorphic base A or G
 Query Match 13.0% Score 59.4; DB 4; Length 20674;
 Best Local Similarity 49.5%; Pred. No. 0.00062;
 Matches 153; Conservative 0; Mismatches 156; Indels 0; Gaps 0;
 Qy 51 TTTGTGCTTGCATAAGATAAGATCTGAAATAGCTTAATTAAATAGCATATAA 110
 Db 11064 TTTTTAATAGCTAAGGIAAATTTTAAATTATTTAAATTATAA 11123

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